

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-20 16:40:42
Date of Next Testing: 2026-08-19 16:40:42
Product Name: **Ruthenium chloride hydrate**
CAS Number: 14898-67-0
Specifications & Purity: 35.0-42.0% Ru basis
Lot #: H2217593
SKU #: **R109234**
Version: **0**
Analysis #: **098199**
Storage Temperature: Room temperature, Argon charged, Desiccated

| Parameter | Limit Values | Result |
|---|---|---|
| Insoluble matter(1%, 25% HCL) | 0-0.1 (%) | 0.00000 % |
| Ru(Gravimetric Analysis After Reduction with Magnesium) | 35-42 (%) | 39.43000 % |
| Appearance (R109234) | Black or Grey Powder or Crystal or Chunk(s) | Black or Grey Powder or Crystal or Chunk(s) |
| ICP: Confirms Ruthenium Component | Confirmed | Confirmed |
| X-Ray Diffraction | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager